

EAST Search History

| Ref # | Hits | Search Query | DBs | Default Operator | Plurals | Time Stamp |
|-------|-------|---|---|------------------|---------|------------------|
| L1 | 8656 | (primary same (coupl\$3 connect\$4) same series) and (primary same secondary) and (((back\$3 near2 up) extra second alternat\$4 substitut\$5 secondary emergen\$4) near3 (power battery)) | US-PGPUB; USPAT; EPO; JPO; DERWENT | OR | ON | 2006/09/12 16:03 |
| L2 | 1197 | 1 and ("315"/\$7).ccls. | US-PGPUB; USPAT; EPO; JPO; DERWENT | OR | ON | 2006/09/12 14:02 |
| L3 | 10611 | ((power supply main) near4 (fail\$3 disconnect\$4 malfunction emergen\$4)) same (((back\$3 near2 up) extra second alternat\$4 substitut\$5 secondary) near3 (power battery))) | US-PGPUB; USPAT; EPO; JPO; DERWENT | OR | ON | 2006/09/12 16:06 |
| L4 | 2481 | L3 and primary and secondary | US-PGPUB; USPAT; EPO; JPO; DERWENT | OR | ON | 2006/09/12 14:09 |
| L5 | 1700 | L4 and battery | US-PGPUB; USPAT; EPO; JPO; DERWENT | OR | ON | 2006/09/12 14:09 |
| L6 | 72 | L5 and ("315"/\$7).ccls. | US-PGPUB; USPAT; EPO; JPO; DERWENT | OR | ON | 2006/09/12 14:09 |
| L7 | 0 | L6 not (14 13 11 5) | US-PGPUB; USPAT; EPO; JPO; DERWENT | OR | ON | 2006/09/12 14:10 |
| L8 | 9666 | (315/277,288,278,279,274,276,282,287,312,314,316,324,325,291,307,272,247,246,209R).ccls. | US-PGPUB; USPAT; EPO; JPO; DERWENT | OR | ON | 2006/09/12 14:11 |
| L9 | 886 | 8 and ((\$4charg\$4 battery) same indicat\$4 same (LED light\$3 bulb lamp)) | US-PGPUB; USPAT; EPO; JPO; DERWENT | OR | ON | 2006/09/12 14:11 |
| L10 | 1077 | 2 not 9 | US-PGPUB; USPAT; EPO; JPO; DERWENT | OR | ON | 2006/09/12 14:12 |

EAST Search History

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|-----|-------|---|---|----|-----|------------------|
| L11 | 874 | 10 and (lamp light bulb) | US-PGPUB; USPAT; EPO; JPO; DERWENT | OR | ON | 2006/09/12 16:06 |
| L12 | 155 | 11 and (\$4charg\$4 same battery) | US-PGPUB; USPAT; EPO; JPO; DERWENT | OR | ON | 2006/09/12 15:03 |
| L13 | 719 | 11 not 12 | US-PGPUB; USPAT; EPO; JPO; DERWENT | OR | ON | 2006/09/12 16:07 |
| L14 | 39934 | (primary same secondary) and (((back\$3 near2 up) extra second alternat\$4 substi tut\$5 secondary emergen\$4) near3 (power battery)) | US-PGPUB; USPAT; EPO; JPO; DERWENT | OR | ON | 2006/09/12 16:39 |
| L15 | 2086 | 14 and 3 | US-PGPUB; USPAT; EPO; JPO; DERWENT | OR | ON | 2006/09/12 16:06 |
| L16 | 1182 | 15 and (lamp light bulb tube LED) | US-PGPUB; USPAT; EPO; JPO; DERWENT | OR | ON | 2006/09/12 16:06 |
| L17 | 1143 | 16 not (13 12) | US-PGPUB; USPAT; EPO; JPO; DERWENT | OR | ON | 2006/09/12 16:07 |
| L18 | 551 | 17 and (\$4charg\$4 same battery) | US-PGPUB; USPAT; EPO; JPO; DERWENT | OR | ON | 2006/09/12 16:16 |
| L19 | 5 | ("2265475").PN. | US-PGPUB; USPAT; EPO; JPO; DERWENT | OR | OFF | 2006/09/12 16:17 |
| L20 | 1559 | (David near3 Richard).in. | US-PGPUB; USPAT; EPO; JPO; DERWENT | OR | ON | 2006/09/12 16:26 |
| L21 | 2 | ("4912372").PN. | US-PGPUB; USPAT; EPO; JPO; DERWENT | OR | OFF | 2006/09/12 16:30 |
| L22 | 1694 | (315/31?).ccls. | US-PGPUB; USPAT; EPO; JPO; DERWENT | OR | ON | 2006/09/12 16:30 |

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|-----|------|---|---|----|----|------------------|
| L23 | 1883 | (315/32?).ccls. | US-PGPUB; USPAT; EPO; JPO; DERWENT | OR | ON | 2006/09/12 16:30 |
| L24 | 3272 | 22 or 23 | US-PGPUB; USPAT; EPO; JPO; DERWENT | OR | ON | 2006/09/12 16:31 |
| L25 | 25 | 24 and (primary same secondary same coupl\$3) and (plural\$4 near4 (primary coil\$1 wind\$4)) | US-PGPUB; USPAT; EPO; JPO; DERWENT | OR | ON | 2006/09/12 16:37 |
| L26 | 716 | (Frank near3 Roberts).ln. | US-PGPUB; USPAT; EPO; JPO; DERWENT | OR | ON | 2006/09/12 16:37 |
| L27 | 3 | 14 and 26 | US-PGPUB; USPAT; EPO; JPO; DERWENT | OR | ON | 2006/09/12 16:38 |
| L28 | 13 | 26 and (primary same secondary) | US-PGPUB; USPAT; EPO; JPO; DERWENT | OR | ON | 2006/09/12 16:39 |
| L29 | 10 | 28 not 27 | US-PGPUB; USPAT; EPO; JPO; DERWENT | OR | ON | 2006/09/12 16:40 |

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|-------|------|---|---|------------------|---------|------------------|
| S1 | 3604 | (315/277,288,278,279,274,276,282,287,312,314,316,324,325).ccls. | US-PGPUB; USPAT; EPO; JPO; DERWENT | OR | ON | 2006/09/12 09:09 |
| S2 | 9666 | (315/277,288,278,279,274,276,282,287,312,314,316,324,325,291,307,272,247,246,209R).ccls. | US-PGPUB; USPAT; EPO; JPO; DERWENT | OR | ON | 2006/09/12 14:11 |
| S3 | 652 | (315/185S,200A).ccls. | US-PGPUB; USPAT; EPO; JPO; DERWENT | OR | ON | 2006/09/12 09:12 |
| S4 | 1452 | S2 and primary and secondary and (back\$4 (back near3 up near5 power) battery) | US-PGPUB; USPAT; EPO; JPO; DERWENT | OR | ON | 2006/09/12 09:52 |
| S5 | 290 | S4 and ((\$4charg\$4 battery) same indicat\$4 same (LED light\$3 bulb lamp)) | US-PGPUB; USPAT; EPO; JPO; DERWENT | OR | ON | 2006/09/12 09:53 |
| S6 | 1463 | S2 and primary and secondary and (back\$4 (emergen\$4 (back near3 up near5 power)) battery) | US-PGPUB; USPAT; EPO; JPO; DERWENT | OR | ON | 2006/09/12 10:23 |
| S7 | 291 | S6 and ((\$4charg\$4 battery) same indicat\$4 same (LED light\$3 bulb lamp)) | US-PGPUB; USPAT; EPO; JPO; DERWENT | OR | ON | 2006/09/12 14:11 |
| S8 | 1 | S7 not S5 | US-PGPUB; USPAT; EPO; JPO; DERWENT | OR | ON | 2006/09/12 10:15 |
| S9 | 1295 | S6 and (diode rectif\$5) | US-PGPUB; USPAT; EPO; JPO; DERWENT | OR | ON | 2006/09/12 10:12 |
| S10 | 53 | S6 and ((plural\$6 several (at near3 least near4 (one two))) near6 (primary near3 (wind\$3 coil2))) | US-PGPUB; USPAT; EPO; JPO; DERWENT | OR | ON | 2006/09/12 10:14 |
| S11 | 42 | S10 not S5 | US-PGPUB; USPAT; EPO; JPO; DERWENT | OR | ON | 2006/09/12 10:24 |

EAST Search History

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|-----|-------|---|---|----|----|------------------|
| S12 | 52 | S9 and ((emergen\$4 (back near3 up)) near5 (power battery)) | US-PGPUB; USPAT; EPO; JPO; DERWENT | OR | ON | 2006/09/12 10:24 |
| S13 | 27 | S12 not (11 5) | US-PGPUB; USPAT; EPO; JPO; DERWENT | OR | ON | 2006/09/12 10:38 |
| S14 | 958 | S9 not (13 11 5) | US-PGPUB; USPAT; EPO; JPO; DERWENT | OR | ON | 2006/09/12 11:29 |
| S15 | 10611 | ((power supply main) near4 (fail\$3 disconnect\$4 malfunction emergen\$4)) same (((back\$3 near2 up) extra second alternat\$4 substitut\$5 secondary) near3 (power battery))) | US-PGPUB; USPAT; EPO; JPO; DERWENT | OR | ON | 2006/09/12 11:33 |
| S16 | 2481 | S15 and primary and secondary | US-PGPUB; USPAT; EPO; JPO; DERWENT | OR | ON | 2006/09/12 11:28 |
| S17 | 1700 | S16 and battery | US-PGPUB; USPAT; EPO; JPO; DERWENT | OR | ON | 2006/09/12 11:28 |
| S18 | 72 | S17 and ("315"/\$7).cccls. | US-PGPUB; USPAT; EPO; JPO; DERWENT | OR | ON | 2006/09/12 11:29 |
| S19 | 48 | S18 not (14 13 11 5) | US-PGPUB; USPAT; EPO; JPO; DERWENT | OR | ON | 2006/09/12 14:09 |
| S20 | 8656 | (primary same (coupl\$3 connect\$4) same series) and (primary same secondary) and (((back\$3 near2 up) extra second alternat\$4 substitut\$5 secondary emergen\$4) near3 (power battery)) | US-PGPUB; USPAT; EPO; JPO; DERWENT | OR | ON | 2006/09/12 13:58 |

EAST Search History

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|-------|-------|---|---|------------------|---------|------------------|
| L1 | 39934 | (primary same secondary) and (((back\$3 near2 up) extra second alternat\$4 substi tut\$5 secondary emergen\$4) near3 (power battery)) | US-PGPUB; USPAT; EPO; JPO; DERWENT | OR | ON | 2006/09/12 20:42 |
| L2 | 60373 | ("315"/\$7).ccls. | US-PGPUB; USPAT; EPO; JPO; DERWENT | OR | ON | 2006/09/12 21:49 |
| L3 | 2218 | 1 and 2 | US-PGPUB; USPAT; EPO; JPO; DERWENT | OR | ON | 2006/09/12 20:43 |
| L4 | 10636 | 1 and ((series near4 (coupl\$4 connect\$4 arrang\$4)) same (load\$2 wind\$4 coil\$1 primar\$4 la mp light\$3 bulb\$1 tube\$1)) | US-PGPUB; USPAT; EPO; JPO; DERWENT | OR | ON | 2006/09/12 20:41 |
| L5 | 1536 | 4 and 2 | US-PGPUB; USPAT; EPO; JPO; DERWENT | OR | ON | 2006/09/12 20:53 |
| L6 | 2139 | 4 and (battery near9 \$4charg\$4) | US-PGPUB; USPAT; EPO; JPO; DERWENT | OR | ON | 2006/09/12 21:53 |
| L7 | 207 | 6 and 2 | US-PGPUB; USPAT; EPO; JPO; DERWENT | OR | ON | 2006/09/12 20:43 |
| L8 | 40272 | ("307"/\$7).ccls. | US-PGPUB; USPAT; EPO; JPO; DERWENT | OR | ON | 2006/09/12 21:17 |
| L9 | 787 | 4 and 8 | US-PGPUB; USPAT; EPO; JPO; DERWENT | OR | ON | 2006/09/12 21:18 |
| L10 | 263 | 9 and (battery near9 \$4charg\$4) | US-PGPUB; USPAT; EPO; JPO; DERWENT | OR | ON | 2006/09/12 21:18 |
| L11 | 230 | 10 not 7 | US-PGPUB; USPAT; EPO; JPO; DERWENT | OR | ON | 2006/09/12 21:18 |

EAST Search History

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|-----|--------|------------------------------------|---|----|----|------------------|
| L12 | 116677 | ("361"/\$7).ccls. | US-PGPUB; USPAT; EPO; JPO; DERWENT | OR | ON | 2006/09/12 21:24 |
| L13 | 856 | 4 and 12 | US-PGPUB; USPAT; EPO; JPO; DERWENT | OR | ON | 2006/09/12 21:24 |
| L14 | 105 | 13 and (battery near9 \$4charg\$4) | US-PGPUB; USPAT; EPO; JPO; DERWENT | OR | ON | 2006/09/12 21:25 |
| L15 | 80 | 14 not (11 7) | US-PGPUB; USPAT; EPO; JPO; DERWENT | OR | ON | 2006/09/12 21:25 |
| L16 | 128172 | ("340"/\$7).ccls. | US-PGPUB; USPAT; EPO; JPO; DERWENT | OR | ON | 2006/09/12 21:30 |
| L17 | 516 | 4 and 16 | US-PGPUB; USPAT; EPO; JPO; DERWENT | OR | ON | 2006/09/12 21:30 |
| L18 | 108 | 17 and (battery near9 \$4charg\$4) | US-PGPUB; USPAT; EPO; JPO; DERWENT | OR | ON | 2006/09/12 21:30 |
| L19 | 490 | 17 not (15 11 7) | US-PGPUB; USPAT; EPO; JPO; DERWENT | OR | ON | 2006/09/12 21:25 |
| L20 | 82 | 18 not (15 11 7) | US-PGPUB; USPAT; EPO; JPO; DERWENT | OR | ON | 2006/09/12 21:31 |
| L21 | 12857 | ("320"/\$7).ccls. | US-PGPUB; USPAT; EPO; JPO; DERWENT | OR | ON | 2006/09/12 21:41 |
| L22 | 497 | 4 and 21 | US-PGPUB; USPAT; EPO; JPO; DERWENT | OR | ON | 2006/09/12 21:41 |
| L23 | 473 | 22 and (battery near9 \$4charg\$4) | US-PGPUB; USPAT; EPO; JPO; DERWENT | OR | ON | 2006/09/12 21:30 |

EAST Search History

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|-----|-------|-----------------------------------|---|----|----|------------------|
| L24 | 381 | 23 not (20 15 11 7) | US-PGPUB; USPAT; EPO; JPO; DERWENT | OR | ON | 2006/09/12 21:43 |
| L25 | 34703 | ("335"/\$7).ccls. | US-PGPUB; USPAT; EPO; JPO; DERWENT | OR | ON | 2006/09/12 21:41 |
| L26 | 34 | 4 and 25 | US-PGPUB; USPAT; EPO; JPO; DERWENT | OR | ON | 2006/09/12 21:42 |
| L27 | 1159 | 6 not (26 24 20 15 11 7) | US-PGPUB; USPAT; EPO; JPO; DERWENT | OR | ON | 2006/09/12 21:46 |
| L28 | 0 | 27 and 2 | US-PGPUB; USPAT; EPO; JPO; DERWENT | OR | ON | 2006/09/12 21:45 |
| L29 | 9025 | 1 and (battery near9 \$4charg\$4) | US-PGPUB; USPAT; EPO; JPO; DERWENT | OR | ON | 2006/09/12 21:46 |
| L30 | 283 | 2 and 29 | US-PGPUB; USPAT; EPO; JPO; DERWENT | OR | ON | 2006/09/12 21:50 |
| L31 | 76 | 30 not (26 24 20 15 11 7) | US-PGPUB; USPAT; EPO; JPO; DERWENT | OR | ON | 2006/09/12 21:50 |
| L32 | 75447 | ("362"/\$7).ccls. | US-PGPUB; USPAT; EPO; JPO; DERWENT | OR | ON | 2006/09/12 21:49 |
| L33 | 142 | 32 and 29 | US-PGPUB; USPAT; EPO; JPO; DERWENT | OR | ON | 2006/09/12 21:50 |
| L34 | 91 | 33 not (31 26 24 20 15 11 7) | US-PGPUB; USPAT; EPO; JPO; DERWENT | OR | ON | 2006/09/12 22:02 |
| L35 | 9025 | 1 and (battery near9 \$4charg\$4) | US-PGPUB; USPAT; EPO; JPO; DERWENT | OR | ON | 2006/09/12 21:55 |

EAST Search History

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|-----|------|--|---|----|----|------------------|
| L36 | 2517 | 35 and ((disconnect\$4 failure emergen\$4 ((open\$3 short\$4) near4 circuit) break\$3 broken fault\$3) near6 (load\$1 lamp light tube bulb LED main supply source\$1)) | US-PGPUB; USPAT; EPO; JPO; DERWENT | OR | ON | 2006/09/12 21:59 |
| L37 | 1950 | 36 and (rectif\$5 diode\$2) | US-PGPUB; USPAT; EPO; JPO; DERWENT | OR | ON | 2006/09/12 22:01 |
| L38 | 858 | 37 and (chang\$4 same battery) | US-PGPUB; USPAT; EPO; JPO; DERWENT | OR | ON | 2006/09/12 22:02 |
| L39 | 587 | 38 not (34 31 26 24 20 15 11 7) | US-PGPUB; USPAT; EPO; JPO; DERWENT | OR | ON | 2006/09/12 22:04 |
| L40 | 1082 | 37 and (secondary same (single each one) same primary) | US-PGPUB; USPAT; EPO; JPO; DERWENT | OR | ON | 2006/09/12 22:27 |
| L41 | 756 | 40 not (34 31 26 24 20 15 11 7) | US-PGPUB; USPAT; EPO; JPO; DERWENT | OR | ON | 2006/09/12 22:25 |
| L42 | 370 | (315/86).ccls. | US-PGPUB; USPAT; EPO; JPO; DERWENT | OR | ON | 2006/09/12 22:25 |
| L43 | 313 | 42 not (41 34 31 26 24 20 15 11 7) | US-PGPUB; USPAT; EPO; JPO; DERWENT | OR | ON | 2006/09/12 22:26 |
| L44 | 18 | 43 and (secondary same primary) | US-PGPUB; USPAT; EPO; JPO; DERWENT | OR | ON | 2006/09/12 22:27 |

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| L1 | 39934 | (primary same secondary) and (((back\$3 near2 up) extra second alternat\$4 substi tut\$5 secondary emergen\$4) near3 (power battery)) | US-PGPUB; USPAT; EPO; JPO; DERWENT | OR | ON | 2006/09/12 20:42 |
| L2 | 60373 | ("315"/\$7).ccls. | US-PGPUB; USPAT; EPO; JPO; DERWENT | OR | ON | 2006/09/12 21:49 |
| L3 | 2218 | 1 and 2 | US-PGPUB; USPAT; EPO; JPO; DERWENT | OR | ON | 2006/09/12 20:43 |
| L4 | 10636 | 1 and ((series near4 (coupl\$4 connect\$4 arrang\$4)) same (load\$2 wind\$4 coil\$1 primar\$4 la mp light\$3 bulb\$1 tube\$1)) | US-PGPUB; USPAT; EPO; JPO; DERWENT | OR | ON | 2006/09/12 20:41 |
| L5 | 1536 | 4 and 2 | US-PGPUB; USPAT; EPO; JPO; DERWENT | OR | ON | 2006/09/12 20:53 |
| L6 | 2139 | 4 and (battery near9 \$4charg\$4) | US-PGPUB; USPAT; EPO; JPO; DERWENT | OR | ON | 2006/09/12 21:53 |
| L7 | 207 | 6 and 2 | US-PGPUB; USPAT; EPO; JPO; DERWENT | OR | ON | 2006/09/12 20:43 |
| L8 | 40272 | ("307"/\$7).ccls. | US-PGPUB; USPAT; EPO; JPO; DERWENT | OR | ON | 2006/09/12 21:17 |
| L9 | 787 | 4 and 8 | US-PGPUB; USPAT; EPO; JPO; DERWENT | OR | ON | 2006/09/12 21:18 |
| L10 | 263 | 9 and (battery near9 \$4charg\$4) | US-PGPUB; USPAT; EPO; JPO; DERWENT | OR | ON | 2006/09/12 21:18 |
| L11 | 230 | 10 not 7 | US-PGPUB; USPAT; EPO; JPO; DERWENT | OR | ON | 2006/09/12 21:18 |

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| L12 | 116677 | ("361"/\$7).cccls. | US-PGPUB; USPAT; EPO; JPO; DERWENT | OR | ON | 2006/09/12 21:24 |
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| L15 | 80 | 14 not (11 7) | US-PGPUB; USPAT; EPO; JPO; DERWENT | OR | ON | 2006/09/12 21:25 |
| L16 | 128172 | ("340"/\$7).cccls. | US-PGPUB; USPAT; EPO; JPO; DERWENT | OR | ON | 2006/09/12 21:30 |
| L17 | 516 | 4 and 16 | US-PGPUB; USPAT; EPO; JPO; DERWENT | OR | ON | 2006/09/12 21:30 |
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| L19 | 490 | 17 not (15 11 7) | US-PGPUB; USPAT; EPO; JPO; DERWENT | OR | ON | 2006/09/12 21:25 |
| L20 | 82 | 18 not (15 11 7) | US-PGPUB; USPAT; EPO; JPO; DERWENT | OR | ON | 2006/09/12 21:31 |
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|-----|-------|-----------------------------------|---|----|----|------------------|
| L24 | 381 | 23 not (20 15 11 7) | US-PGPUB; USPAT; EPO; JPO; DERWENT | OR | ON | 2006/09/12 21:43 |
| L25 | 34703 | ("335"/\$7).ccls. | US-PGPUB; USPAT; EPO; JPO; DERWENT | OR | ON | 2006/09/12 21:41 |
| L26 | 34 | 4 and 25 | US-PGPUB; USPAT; EPO; JPO; DERWENT | OR | ON | 2006/09/12 21:42 |
| L27 | 1159 | 6 not (26 24 20 15 11 7) | US-PGPUB; USPAT; EPO; JPO; DERWENT | OR | ON | 2006/09/12 21:46 |
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| L29 | 9025 | 1 and (battery near9 \$4charg\$4) | US-PGPUB; USPAT; EPO; JPO; DERWENT | OR | ON | 2006/09/12 21:46 |
| L30 | 283 | 2 and 29 | US-PGPUB; USPAT; EPO; JPO; DERWENT | OR | ON | 2006/09/12 21:50 |
| L31 | 76 | 30 not (26 24 20 15 11 7) | US-PGPUB; USPAT; EPO; JPO; DERWENT | OR | ON | 2006/09/12 21:50 |
| L32 | 75447 | ("362"/\$7).ccls. | US-PGPUB; USPAT; EPO; JPO; DERWENT | OR | ON | 2006/09/12 21:49 |
| L33 | 142 | 32 and 29 | US-PGPUB; USPAT; EPO; JPO; DERWENT | OR | ON | 2006/09/12 21:50 |
| L34 | 91 | 33 not (31 26 24 20 15 11 7) | US-PGPUB; USPAT; EPO; JPO; DERWENT | OR | ON | 2006/09/12 22:02 |
| L35 | 9025 | 1 and (battery near9 \$4charg\$4) | US-PGPUB; USPAT; EPO; JPO; DERWENT | OR | ON | 2006/09/12 21:55 |

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|-----|------|--|---|----|----|------------------|
| L36 | 2517 | 35 and ((disconnect\$4 failure emergen\$4 ((open\$3 short\$4) near4 circuit) break\$3 broken fault\$3) near6 (load\$1 lamp light tube bulb LED main supply source\$1)) | US-PGPUB; USPAT; EPO; JPO; DERWENT | OR | ON | 2006/09/12 21:59 |
| L37 | 1950 | 36 and (rectif\$5 diode\$2) | US-PGPUB; USPAT; EPO; JPO; DERWENT | OR | ON | 2006/09/12 22:01 |
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| L41 | 756 | 40 not (34 31 26 24 20 15 11 7) | US-PGPUB; USPAT; EPO; JPO; DERWENT | OR | ON | 2006/09/12 22:25 |
| L42 | 370 | (315/86).ccls. | US-PGPUB; USPAT; EPO; JPO; DERWENT | OR | ON | 2006/09/12 22:25 |
| L43 | 313 | 42 not (41 34 31 26 24 20 15 11 7) | US-PGPUB; USPAT; EPO; JPO; DERWENT | OR | ON | 2006/09/12 22:26 |
| L44 | 18 | 43 and (secondary same primary) | US-PGPUB; USPAT; EPO; JPO; DERWENT | OR | ON | 2006/09/12 22:27 |